

CITIES SERVICE OIL CO.
Estey No. 3

SEC. 14 T. 23 R. 10 W.
SWc NW
330' N 330' E of W $\frac{1}{4}$ cor.

DEEPENING RECORD

Total Depth. 4495'
Comm. 5-3-42 Comp. 5-17-42
Shot or Treated. None
Contractor. Hissom Drilling Co.
Issued. 7-28-45

County Reno.



CASING.

85/8" 232' cemented.
5 $\frac{1}{2}$ " 4000' cemented.

Elevation.

Production. DRY.

Figures Indicate Bottom of Formations.

surface clay	68
sand	88
red shale	210
shale and lime shells	232
red shale and shells	436
anhydrite	458
shale and shells	1265
salt and shale broken	1410
shale and lime, shells	1480
lime & sand, broken	1608
lime and shale	1956
shale and shells	1975
lime and sand	2085
lime and shale	2165
lime	2263
broken lime	2280
shale and lime	2455
shale and shells	2520
broken lime and shale	2570
shale and shells	2612
shale	2670
shale and lime	2784
lime hard	2800
lime	2860
lime hard	2925
shale and lime	3083
lime and shale broken	3140
shale and lime	3385
shale and lime broken	3434
lime hard	3456
broken lime	3484
broken lime and shale	3497
lime hard	3503
lime & shale	3525
lime	3587
lime and shale	3636
lime and chert	3689
shale hard	3691
shale	3743
shale and lime shells	3777
shale	3815
chert and lime	3824
chert	3828
cherty lime	3855
lime and chert	3892
lime	3901
lime hard and chert	3915
shale and lime	3937

sdv shale	3941
lime and shale	3957
lime, shale and chert	3984
lime	4000

Total Depth.

Top Viola	3824
Arbuckle	3987

Penetration 13'

June 18, 1942 Perf. 24 shots 3824-28.
Hole filled 250' water in 30 min.
1225' water in 2 hours and 20 Min.
1625' water in 4 hours.
2030' water in 6 hours.

Set retainer at 3814 and squeezed
15 sacks cement into formation thro
perforations at 3824-28. Bailed hole
and drilled cement to 3951

To be used for water disposal
in Arbuckle at later date.

DEEPENING RECORD:

I. P. - Input test 110 BWFH
T. D. - 4495'
Contr. - Crown Drlg. Co.
Comm. - 3-15-45
Comp. - 4-14-45

Old T. C.	4000
-----------	------

limo hrd	4022
lime	4120
shale	4123
lime	4162
limo hrd & chert	4185
lime	4260
lime hrd	4268
lime	4368
lime sdv	4374
lime	4392
limo sdv	4400
limo	4415
lime sdv	4448
lime	4455
lime sdv	4465
limo	4476
lime sdv	4495
Total Depth	

Top of Arbuckle	3987'
Penetration	508'

Ran Tbg. & set packer @ 3995'